

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	160	(superlattice or stack or stacked or mirror) near10 (contraction or compression or compressive or compressed) near6 (tensile or expansion) near5 (layer or layered or alternating or sin or silicon near nitride or sio or silicon near oxide)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/27 12:04
L2	193	(superlattice or stack or stacked or mirror) near10 (alternat\$4 or opposite) near4 (stress or strain)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/27 12:20
L3	495	(spatial or mems! or cantilever or membrane) near3 (light or photo or optical or wavelength) near2 (modulator or modulating) and (superlattice or stack or multilayer or multi-layer or layer or "adjacent" near layer or "adjacent" near film or mirror or dbr or bragg or reflector or reflection) near3 (stress or strain or strained or stressed or tensile or compressive or compression or contraction or expansion)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/27 12:32
L4	214	(spatial) near2 (light or photo or optical or wavelength) near2 (modulator or modulating) and (membrane or cantilever or mems!) near3 (flexure or flexurally or flexing or deformation or deforming or deflection or deflected or deflecting or deformed)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/27 12:55
L5	528	(spatial) near2 (light or photo or optical or wavelength) near2 (modulator or modulating or filter or filtering or modulated or filtered) and (interferometer or interferometric) and (movable or moving or flexing or flexible or flexible or flexure or flexurally or deformable or deforming or deformed or deflection or deflecting or deflectable) near4 (membrane or layer or mirror or reflector or stack or cantilever)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/27 13:19

## EAST Search History

L6	470	(spatial) near (light or photo or optical or wavelength) near2 (modulator or modulating or filter or filtering or modulated or filtered) and (interferometer or interferometric) and (movable or moving or flexing or flexible or flexible or flexure or flexurally or deformable or deforming or deformed or deflection or deflecting or deflectable) near4 (membrane or layer or mirror or reflector or stack or cantilever)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/27 13:50
L7	172	(mirror or dbr or bragg near reflector) near6 (superlattice or stack or multilayer or alternating or stacked) near8 (stress or strain or stressed or strained or tensile or compressive)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/27 14:19
L8	16	(slm or (light or laser) near2 (modulat\$3 or filter or filtering) or fabry-perot or interferometer) and (mirror or dbr or reflect\$3) near6 (superlattice or stack or multilayer or alternating or stacked) near5 (rich or poor or (low or high or lower or higher) near2 (percent\$3 or atomic))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/27 14:38
L9	19	dbr near6 (superlattice or stack or multilayer or alternating or stacked or (multiple or multi or plural or plurality) near (layer\$2)) near5 ("same" or identical or common or similar) near3 (material or composition or components)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/27 14:39
L11	141	359/308.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/27 14:40
L12	262	359/224.ccls. and (multilayer\$2 or (multi or plural or multiple or plurality or stack or stacked) near2 (layer or film) or superlattice)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/27 14:43

## EAST Search History

L13	171	359/223.ccls. and (multilayer\$2 or (multi or plural or multiple or plurality or stack or stacked) near2 (layer or film) or superlattice)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/27 14:55
L14	420	359/214.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/27 15:05
L15	48	359/212.ccls. and (multilayer\$2 or (multi or plural or multiple or plurality or stack or stacked) near2 (layer or film) or superlattice)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/27 15:10
L16	811	257/99.ccls. and (multilayer\$2 or (multi or plural or multiple or plurality or stack or stacked) near2 (layer or film) or superlattice)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/27 15:12
L17	110	257/98.ccls. and (spatial adj light adj modulator or slm or fabry adj perot or interferometer or interferometric)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/27 15:35
L18	492	257/89.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/27 15:41
L19	1063	257/88.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/27 15:45

## EAST Search History

L20	104	257/88.ccls. and (optical or mirror or reflect\$4 or dbr or micromirror or mems or slm or light near modulat\$4) near10 (multilayer\$2 or (multi or plural or multiple or plurality or stack or stacked) near2 (layer or film) or superlattice)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/27 15:53
L21	269	257/E33.069.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/27 16:05
L22	60	257/E31.123.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/27 16:05
L23	240	(silicon adj nitride or sin or sinx) near6 (compression or compressive) near6 (tensile or tension)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/27 16:13
L24	35	(sin or silicon adj nitride) near10 (alternating or opposite) near5 (stress)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/27 16:17

# Interference Search

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L25	71	((spatial near light near modulator or slm) and (silicon adj nitride or sin)).clm.	US-PGPUB	OR	ON	2007/02/27 16:19
L26	16	((optical near3 film or dbr or bragg near reflector or reflection or reflecting or interference or mirror) and (stack or stacked or laminate or lamination or multilayer\$4) near6 (silicon adj nitride or sin)).clm.	US-PGPUB	OR	ON	2007/02/27 16:21
L27	4	((stack or stacked or laminate or lamination or multilayer\$4 or dbr or mirror) near10 (silicon adj nitride or sin) near10 (refractive near index)).clm.	US-PGPUB	OR	ON	2007/02/27 16:22
L28	2	((stack or stacked or laminate or lamination or multilayer\$4 or dbr or mirror) near10 (silicon adj nitride or sin) near10 (stress or strain or stressed or strained or compressive or tensile)).clm.	US-PGPUB	OR	ON	2007/02/27 16:23
L29	6	((dbr or mirror or bragg near reflect\$4 or membrane or cantilever) near10 (stress or strain or stressed or strained or compressive or tensile) near5 (alternating or opposite)).clm.	US-PGPUB	OR	ON	2007/02/27 16:23